

TERMS OF REFERENCE

SUPPLY AND DELIVERY OF ICT EQUIPMENT (Rebidding)

I. BACKGROUND

In compliance with the Republic Act. No. 9184 known as the “Government Procurement Reform Act”, the PSHS-MRC will be conducting a public bidding for the supply and delivery of ICT Equipment.

II. OBJECTIVES

- Upgrade of older computer systems to enhance productivity and ensure compatibility to run newer programs efficiently.
- Installation of large-size TVs and relevant accessories for the Auditorium to enhance the visual experience of audiences during the presentation.
- Additional printers for offices which lack printer supply.
- A public address amplifier and accessories for the girls' dorm building are needed to power up the available speakers for the public address system.
- Multimedia camera and accessories to be used by the Multimedia Committee during school events and activities.
- Installation of the required AVR for the Lab building elevator to be operational and will protect the elevator electronic system in case of power failure.

III. APPROVED BUDGET FOR THE CONTRACT (ABC):

The Approved Budget for the Contract is **Two Million One Hundred Ninety Eight Thousand Pesos only (Php 2,198,00.00)** inclusive of all taxes.

IV. BIDDER'S QUALIFICATION

Bidders should have completed, within **two (2) years** from the date of submission and receipt of bids, a contract similar to the Project. *See PBD for further details.*

V. DELIVERABLES

Lot 1 - Six (6) 13-inch Laptop, three (3) computer system unit (set), one (1) HDMI over single CAT5/6 splitter (set), two (2) 85-inch 4K Ultra HD TV (set), two (2) 75-inch 4K Ultra HD TV 9 (set), one (1) DSLR Camera with Accessories (set), and fourteen (14) A3 Refill Ink Tank Multi-Function Center with Wireless & Ethernet Connectivity (set).

VI. TECHNICAL SPECIFICATIONS

LOT	DESCRIPTION	MINIMUM SPECIFICATIONS
1	1. 13-inch laptop	<i>Please see below</i>
	Processor	ARM-based system on a chip (SoC) central processing unit (CPU) and graphics processing unit (GPU) with 8-core CPU, 10-core GPU, 16-core neural processing unit; 16 MB L2 Cache
	Memory	16GB unified memory
	Storage	256GB or Higher SSD storage
	Graphics	13.6-inch (diagonal) LED-backlit display with IPS technology, 2560-by-1664 native resolution at 224 pixels per inch with support for 1 billion colors, 500 nits brightness
	External Display	One external display with up to 6K resolution at 60Hz, Supported formats include HEVC, H.264, HDR with Dolby Vision, HDR10, and HLG
	Power Supply	Line voltage: 100V to 240V AC, Frequency: 50Hz to 60Hz
	Wireless	Wi-Fi 6 (802.11ax) ; Bluetooth 5.3
	Ports	Two Thunderbolt / USB 4 ports with support for: -Charging -DisplayPort -Thunderbolt 3 (up to 40Gb/s) -USB 4 (up to 40Gb/s) -USB 3.1 Gen 2 (up to 10Gb/s)
	Audio Capabilities	Four-speaker sound system, Wide stereo sound, Three-mic array with directional beamforming, 3.5 mm headphone jack with advanced support for high-impedance headphones
	Audio Format	Audio playback: Supported formats include AAC, MP3, Lossless, FLAC, Dolby Digital, Dolby Digital Plus, and Dolby Atmos
	Webcam	1080p HD camera
	Battery	Up to 18 hours movie playback Up to 15 hours wireless web 52.6-watt-hour lithium-polymer battery, including 70W USB-C Power Adapter
	Power Supply	Line voltage: 100V to 240V AC, Frequency: 50Hz to 60Hz
Height	0.44 inch (1.13 cm)	
Width	11.97 inches (30.41 cm)	

Depth	8.46 inches (21.5 cm)
Weight	2.7 pounds (1.24 kg)
Keyboard	Backlit Keyboard with Touch fingerprint - US English
Security	
Color Options	2-midnight black, 2 space gray, 3 silver finish color
Additional Features	With 1-year warranty
2. Computer System Unit	<i>Please see below</i>
Processor	Intel Core i7-12700F Raptor Lake Socket LGA 1700 Processor
Motherboard	Socket LGA 1700, Supports up to 128GB DDR4 Memory, up to 4800+(OC) MHz Ddr4, 2 M.2 slots, 4 SATA III, 1 PCI-E X1, 2 PCI-E X16, 2 DisplayPort, 2 HDMI ports. With WIFI. form factor: MATX
Memory	32gb 4x8 3200mhz Ddr4 RGB Memory White
Graphics Card	Core Clock: 2475 MHz (Reference card: 2460 MHz), Cores: 3072, Memory Clock: 17 Gbps, Memory Size: 8 GB, Memory Type: GDDR6, Memory Bus: 128 bit, Card Bus:PCI-E 4.0, Digital max resolution: 7680x4320, Multi-view: 4, PCB Form: ATX, DirectX: 12 Ultimate, OpenGL: 4.6, DisplayPort 1.4a*2, HDMI 2.1a*2.
SSD	PCIe M.2 3.0 NVME 1TB PCIe 4.0
Power Supply	850W 80+ Gold Fully Modular Power Supply
Case	Mid Tower Gaming PC Case Black,I/O PORTS: 1 x USB 3.0 + 2 x USB 2.0 + HD Audio / Mic, CASE EXPANSION SLOTS: 7, MAXIMUM GPU LENGTH: 350 mm, POWER SUPPLY: Standard ATX, PRE-INSTALL FAN: 1 x 120 mm addressable RGB LED FAN included, SUPPORT MB FORM FACTOR: ATX / mATX / Mini-ITX
CPU Cooling	120mm ARGB Dual Tower Substantial Cooling Power CPU Air Cooler
Display	27" IPS 165Hz Curved Monitor
Additional Features	With wired keyboard and mouse With 1000va UPS 1 year warranty
3. 85-inch 4K Ultra HD TV	
Processor	4k HDR processor Full Array LED Google TV
Wifi Frequency	2.4GHz/5GHz(for Wi-Fi Direct: 2.4GHz Only)
Ethernet Input	1 HDCP2.3(for HDMI™1/2/3/4)

HDMI Inputs Total	4 (4Side)
USB PORTS:	2 (Side)
BLUETOOTH PROFILE SUPPORT:	Version 4.2, HID (mouse/keyboard connectivity)/HOGP (Low Energy device connectivity)/SPP(Serial Port Profile)/A2DP (stereo audio) 1/AVRCP (AV remote control)
Apple Airplay	Yes
Display Resolution	(H X V, PIXELS) 3840 x 2160"
Backlight Type	Direct LED
PICTURE MODES	Vivid, Standard, Cinema, Game, Graphics, Photo,Custom, Dolby Vision (Vivid/Bright/Dark)
VIDEO SIGNAL SUPPORT HDMI™ signal	4096x2160p(24,50,60Hz), 3840x2160p(24,25,30,50,60Hz), 1080p(24,30,50,60Hz), 1080i(50,60Hz), 720p(24,30,50,60Hz), 576p, 480p
SPEAKER CONFIGURATION	Full Range (Bass Reflex) x 2
DTS AUDIO FORMAT SUPPORT	DTS Digital Surround
DOLBY AUDIO FORMAT SUPPORT	Dolby™ Audio, Dolby™ Atmos
ON-BOARD STORAGE (GB)	32GB
OPERATING SYSTEM	Android TV™
SCREEN SIZE (CM, MEASURED DIAGONALLY)	215 cm
POWER REQUIREMENTS (VOLTAGE/FREQUENCY)	50 Hz, 220 V - 240 V AC
Additional Features:	With 2-Year Warranty
	Comes with remote and tv stand
	VESA® HOLE PITCH(W X H)
	Comes with remote and tv stand
	Comes with 1 TV Wall Mount for Large TVs Up to 90" Full Motion Has Smooth Swivel, Tilt, and Extension, Weight capacity
4. 75-inch 4K Ultra HD TV	
Processor	4k HDR processor Full Array LED Google TV
WI-FI FREQUENCY	2.4GHz/5GHz(for Wi-Fi Direct
Ethernet input	1 HDCP2.3(for HDMI™1/2/3/4)

HDMI INPUTS TOTAL	4(4Side)
USB PORTS	2 (Side)
BLUETOOTH PROFILE SUPPORT	Version 4.2, HID (mouse/keyboard connectivity)/HOGP (Low Energy device connectivity)/SPP(Serial Port Profile)/A2DP (stereo audio) 1/AVRCP (AV remote control)
APPLE AIRPLAY	Yes
DISPLAY RESOLUTION (H X V, PIXELS)	3840 x 2160
BACKLIGHT TYPE	Direct LED
PICTURE MODES	Vivid, Standard, Cinema, Game, Graphics, Photo,Custom, Dolby Vision (Vivid/Bright/Dark)
VIDEO SIGNAL SUPPORT	HDMI™ signal 4096x2160p(24,50,60Hz), 3840x2160p(24,25,30,50,60Hz), 1080p(24,30,50,60Hz), 1080i(50,60Hz), 720p(24,30,50,60Hz), 576p, 480p
SPEAKER CONFIGURATION	Full Range (Bass Reflex) x 2
DTS AUDIO FORMAT SUPPORT	DTS Digital Surround
DOLBY AUDIO FORMAT SUPPORT	Dolby™ Audio, Dolby™ Atmos
ON-BOARD STORAGE (GB)	32GB
OPERATING SYSTEM	Android TV™
SCREEN SIZE (CM, MEASURED DIAGONALLY)	189 cm
POWER REQUIREMENTS (VOLTAGE/FREQUENCY)	50 Hz, 220 V - 240 V AC
Additional Features	<p>With 2-Year Warranty Comes with remote and tv stand VESA® HOLE PITCH(W X H) 40.0 x 40.0 cm</p> <p>Comes with remote and tv stand Comes with 1 TV Wall Mount for Large TVs Up to 90" Full Motion Has Smooth Swivel, Tilt, and Extension, Weight capacity 75KG, Universal Design Works with common brand TVs - Includes Hardware and drill Template.</p>

5. DSLR / Mirrorless Camera including handheld gimbal and wireless lavalier	24.2MP APS-C CMOS Sensor, Dual Pixel CMOS AF II
	2.36m-Dot OLED EVF Single SD card slot; JPG/HEIF/RAW/C-RAW picture formats;
	MP4 recording up to 4K UHD (30p) / 4K UHD crop (60p) / Full HD
	HDR PQ; 2hrs continuous recording time available
	AF: Spot AF/1-point AF/Expand AF area (above, below, left and right)
	Expand AF area (Around)/ Flexible zone AF 1-3/Whole area AF
	People/Animal/Vehicles subjects AI auto detection
	Mechanical/Electronic 1st Curtain: Max. Approx. 15fps
	Electronic shutter: Max Approx. 23fps
	Optical Lens Image Stabilization support
	Electronic Viewfinder 2.36M dot count; 0.95x magnification
	LCD Monitor 1.04M dot count; 3.0inches dimension;Vari-angle design
	Built-in flash; Approx. 6meters with 18-45mm f/4.5-6.3 IS Lens
	Includes battery and 64GB Memory Card and camera strap, bag, and authentic battery charger
	Including: 1 set Handheld Gimbal DSLR Camera Stabilizer
	3.0 kg (Handheld); Bluetooth 5.0; USB-C for connections
Pan axis: 360°/s + Tilt axis: 360°/s + Roll axis: 360°/s NATO port; M4 Mounting Hole; 1/4"-20 Mounting Hole; Cold Shoe Mount; Video Transmission/ Follow Focus Motor Port (USB-C); RSS Camera Control Port (USB-C);	
Battery: RB2-3400mAh -7.2 V; 18650 2S type; 3400mAh cap; Up to 14hrs Max. Batt. Life;	
2.4000-2.4835 GHz operating frequency;	
Dimension when Folded: 260×210×75 mm	

		(including the handle)
		Dimension when Unfolded: 400×185×175 mm (including the handle and without the Extended Grip/Tripod)
		Including: 1 set Wireless Lavalier Microphone; pocket-size; with 2x Button-sized lavalier
		Transmitters and 3x Receiver (1 for Android, 1 for iOS, and 1 for DSLR cameras) and 1 charging case; 300m transmission range;
		30hrs total battery life; 48kHz/24bit HiFi Sound;
		compatible with iOS/Android and DSLR Cameras headphone out; Plug and Play, ready out of box; w/ phone shutter
		With 1 year warranty for DLSR Camera, Gimbal, and Lavalier
	6. A3 Refill Ink Tank Multi-Function Center with Wireless & Ethernet Connectivity	Automatic 2-sided Color Print ADF - Scan/Copy/Fax
		Professionally Designed for Fast Print Speeds, Low Cost High Resolution Photo Quality with Ultra High Yield Ink Bottle
		Wi-Fi Direct, Mobile & USB Print
	FUNCTIONS	Fax, Print, Scan, Copy
	PAPER SIZE	A4, Letter, Executive, B5A3, Ledger, B4, Legal, Folio, A5, B6, A6, Photo-4"x6", Indexcard-5"x8", Photo-3.5"x5", Photo-5"x7", C5 Envelope, Com-10 Envelope, DL Envelope, Monarch Envelope, Mexico Legal, India Legal
	RESOLUTION	up to 1200x4800 dpi
	PRINTING WIDTH	A3
	BORDERLESS	A4, Letter, A6, Photo (10 cm x 15 cm), Photo L (89 mm x 127 mm), Photo 2L (13 cm x 18 cm), Index Card (127 mm x 203 mm), A3, Ledger
	2-SIDED - PAPER SIZE	A3, Ledger, JIS B4, Legal, Folio, A4, Letter, Executive, A5, JIS B5, JIS B6, Mexico Legal, India Legal
	PAPER INPUT - PAPER TRAY #1 - MAXIMUM PAPER CAPACITY	Max. 250 sheets of 80 gsm plain paper
	PAPER INPUT - MULTI-PURPOSE TRAY	Plain paper, Inkjet paper, Glossy paper(cast/resin), Recycled paper

PAPER INPUT - MULTI-PURPOSE TRAY - MAXIMUM PAPER CAPACITY	Max. 100 sheets, 80 gsm
ADF INPUT PAPER TRAY MAXIMUM PAPER CAPACITY	Up to 50-sheets
PAPER OUTPUT	Up to A4/Letter
COLOUR	Yes, MONOCHROME
RESOLUTION	Print
2-SIDED - PAPER SIZE	Ledger, Legal, Folio, Letter, A3, A4, A5, A6, Photo-4"x6", Mexico Legal, India Legal
USB 2.0, LAN	Yes, WIRELESS LAN, IEEE 802.11b/g/n (Infrastructure), IEEE 802.11g/n (Wi-Fi Direct™)
SCANNING WIDTH - ADF	Max. 295 mm
SCANNING LENGTH - SCANNER GLASS	Max. 429.8 mm
SCANNING LENGTH - ADF	Max. 429.8 mm
DISPLAY	2.7" TFT Colour LCD
MEMORY CAPACITY	128 MB
POWER SOURCE	AC 220 V to 240 V 50/60Hz
WIRELESS NETWORK SECURITY	WEP 64/128 bit, WPA-PSK (TKIP/AES), WPA2-PSK (AES)
Additional Features	Comes with extra 2 sets of inks aside from the included stock ink With 1 year warranty

VII. OTHER REQUIREMENTS

1. Warranty - **One (1) year** on parts and service/labor with replacement by the supplier free of cost/charge for 13-inch Laptop, computer system unit (set), DSLR Camera Accessories (set), A3 Refill Ink Tank Multi-Function Center with Wireless & Ethernet Connectivity (set), Four Zone Matrix Power Amplifier with input routing (set).
2. Warranty - **Two (2) years** on parts and service/labor with replacement by the supplier free cost/charge for 85-inch 4K Ultra HD TV (set), 75-inch 4K Ultra HD TV 9 (set), 20kVA, Three Phase, 400V, 60Hz Automatic Voltage Regulator (set).
3. Installation and testing of AVR.

4. AFTER SALES SERVICE
 - a. Submission of Certificate of After Sales Service, Manpower Requirements and Availability of spare parts within the warranty period with the list of accredited services centers in the Philippines, indicating the address, telephone numbers and contact persons.
5. Original Warranty/Guarantee Certificates shall be issued in the name of PSHS-MRC.
6. Distributorship Agreement shall be provided for the legitimacy of the supplier.

VIII. DELIVERY SCHEDULE

1. Delivery Period: The Supply and Delivery of ICT Equipment must be delivered within **thirty (30) calendar days upon** the receipt of the Notice to Proceed (NTP).
2. Delivery Site: The ICT Equipment must be delivered at the address below:

**PHILIPPINE SCIENCE HIGH SCHOOL
MIMAROPA REGION CAMPUS
*Brgy. Rizal, Odiongan, Romblon, 5505***

3. Delivery should be made within office hours and on regular working days on or before the stipulated date in the contract unless otherwise specified for valid reason why the same cannot be complied with.


IX. INSPECTION, TESTING AND ACCEPTANCE

1. After Sales Service and Support during the warranty period, all reported defects shall be completely/satisfactorily repaired/replaced by the winning bidder/supplier within **72 hours** after receipt of a verbal and/or written notice from the PSHS-MRC.
2. The PSHS-MRC shall have the right to reject and return the unit and cancel the corresponding Contract if units delivered are defective, incomplete, or non-compliant to the specifications herein specified.

X. TERMS OF PAYMENT

The payment shall be done within **fifteen (15) working days** upon receipt, inspection and acceptance of the ICT equipment, warranty certificates and other documents as may be required.


Prepared by:



VIRGIL DONOVAN F. FAMINI
Head, Technical Working Group – Goods



MARJORIE DWAIN M. FABRO
Member, Technical Working Group – Goods



DOROTHY ANNE B. ICAL
Member, Technical Working Group – Goods

XI. REFERENCES (for sample purposes only)



A3 Refill Ink Tank Multi-

